

CLAIMS

1. A fluid pressurization device including:
  - a pressure container defining a fixed volume, in use;
  - a first resiliently deformable inflatable bladder for containing a fluid under pressure, that is located within the pressure container;
  - a second resiliently deformable inflatable bladder for containing a fluid under a relatively higher pressure than the pressure of the fluid in the first bladder and that is located within the pressure container adjacent the first bladder; and
  - releasable holding means for initially holding the second bladder at a fixed volume when inflated to thereby hold the fluid contained therein under pressure, and for releasing the second bladder thereby permitting the second bladder to expand and exert a force on the first bladder for pressurizing the fluid contained therein.
2. A fluid pressurization device as claimed in Claim 1, wherein the first bladder contains a volatile fluid under pressure and the second bladder contains a non-volatile fluid at a relatively higher pressure than the pressure of the fluid in the first bladder.
3. A fluid pressurization device as claimed in Claim 1, wherein the first bladder has an opening in which a valve is located, through which fluid can be introduced into and discharged from the first bladder.

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4. A fluid pressurization device as claimed in Claim 1, wherein the second bladder has an opening including a valve through which the second bladder can be inflated with fluid.
5. A fluid pressurization device as claimed in Claim 1, wherein the releasable holding means comprises a flexible sheet element that is wrapped around the second bladder to form a roll surrounding the second bladder wherein portions of the sheet element overlap and contact one another, the rolled-up sheet element being in contact with the second bladder, an inner side of the pressure container and the first bladder in an arrangement wherein frictional forces acting between said overlapping portions of the sheet element and the second bladder in a hoop direction and frictional forces acting between said sheet element and the pressure container and the first bladder, respectively, resist unrolling of the sheet element, in use.
6. A fluid pressurization device as claimed in Claim 5, wherein the sheet element is configured and the first and second bladders are located in the pressure container, in an arrangement permitting gradual unrolling of the sheet element when fluid is discharged from the first bladder, causing a reduction in size of the first bladder and a consequent reduction in the frictional forces acting between said overlapping portions of the sheet element and the second bladder and the pressure container.
7. A fluid pressurization device as claimed in Claim 6, wherein the pressure container has a frusto-conical shape in said in-use configuration thereof.
8. A fluid pressurization device as claimed in Claim 7, wherein the first bladder has a frusto-conical shape when inflated.
9. A fluid pressurization device as claimed in Claim 8, wherein the second bladder has a frusto-conical shape when inflated.

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10. A fluid pressurization device as claimed in Claim 9, wherein the sheet material is tapered towards one end thereof when viewed in plan view, thereby permitting the sheet element to form a roll around the second bladder which has a frusto-conical shape conforming substantially to the shape of the second bladder when inflated.
11. A fluid pressurization device as claimed in Claim 10, wherein a relatively narrower end of the sheet element is wrapped around a relatively narrower end of the second bladder, thereby resulting in the frictional forces acting between the overlapping portions of the sheet element in a hoop direction at said narrower ends, being relatively less than the frictional forces acting in a hoop direction between the overlapping portions of the sheet element at a relatively wider end of the sheet element.
12. A fluid pressurization device as claimed in Claim 5, wherein the sheet element is of fabric material.
13. A fluid pressurization device as claimed in Claim 1, wherein the pressure container is in the form of a flexible bag of a fabric material.
14. An ordnance deflagration device including  
a fluid pressurization device including:
  - a) a pressure container defining a fixed volume, in use;
  - b) a first resiliently deformable inflatable bladder containing a combustible fluid under pressure, that is located within the pressure container, the first bladder having an opening in which a valve is located, through which fluid can be discharged from the first bladder

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having an opening in which a valve is located, through which fluid can be discharged from the first bladder;

- c) a second resiliently deformable inflatable bladder containing a non-volatile fluid under a relatively higher pressure than the pressure of the combustible fluid in the first bladder and that is located within the pressure container adjacent the first bladder; and
- d) releasable holding means for initially holding the second bladder at a fixed volume when inflated to thereby hold the fluid contained therein under pressure, and for releasing the second bladder thereby permitting the second bladder to expand and exert a force on the first bladder for pressurizing the fluid contained therein; and

a torch that is connected in flow communication with the combustible fluid contained in the first bladder thereby to ignite the fluid to produce a flame that can be used to burn through the casing of unexploded ordnance and into explosive material contained therein, to cause the destruction of said ordnance.

- 15. An ordinance deflagration device as claimed in Claim 14, wherein the fluid pressurization device is equivalent to the fluid pressurization device as claimed in any one of Claims 3 to 13.

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